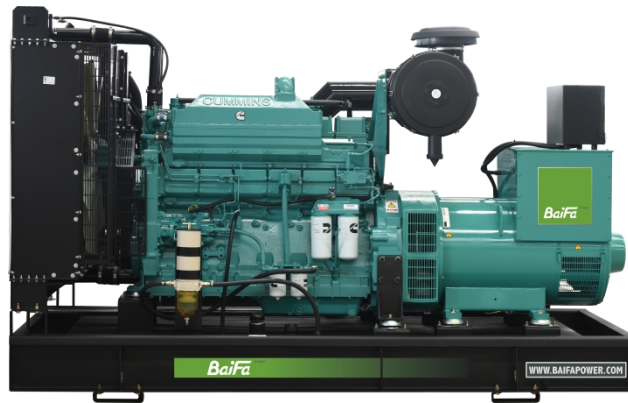


**MODEL: BF-C500Q**

**400V | 1500rpm | 50Hz**



<b>ESP</b> Standby Power	<b>500 kVA</b>	<b>PRP</b> Prime Power	<b>450 kVA</b>
<b>ENGINE</b>	<b>CCEC Cummins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>QSNT-G4X</b>		<b>S4L1D-G41</b>

## GENERAL FEATURES

Engine: CCEC Cummins QSNT-G4X

Alternator: single bearing, IP23, insulation class H

40°C radiator, fans are driven by belt, with safety guard

Dry type air filter, fuel filter & oil filter

Vibration damper

Standard control panel

24V charging alternator

Exhaust bellows, elbows, flange & muffler

Lead-acid batteries, rack and cables

User manual

**MODEL: BF-C500Q****400V | 1500rpm | 50Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF ( COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	656	400/500	360/450
415/240	50	3	0.8	696	400/500	360/450
400/230	50	3	0.8	721	400/500	360/450
380/220	50	3	0.8	759	400/500	360/450

**Prime Power (PRP):** Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820 (eqv ISO 8528) ; A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

**Standby Power Rating (ESP):** The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

**SALES PROMISES**

Baifa Power provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: 15 months from the date BAIFA sold to the first buyer or one year after installation or 1000 running hours (accumulated), whichever comes first.

Service and parts are available from Baifa Power or distributors in your location.

Comprehensive Solutions For

**POWER GENERATION**

**MODEL: BF-C500Q****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	CCEC Cummins QSNT-G4X
----------------------	-----------------------

Air intake system	Turbo, Air-Air cooling
-------------------	------------------------

Fuel system	CELECT
-------------	--------

Cylinder arrangement	6 in line
----------------------	-----------

Displacement	14L
--------------	-----

Bore and stroke	140*152 (mm)
-----------------	--------------

Compression ratio	14:1
-------------------	------

Rated speed	1500rpm
-------------	---------

Max. Standby power at rated speed	448kW/600hp
-----------------------------------	-------------

Governor type	Electronic
---------------	------------

**Exhaust System**

Exhaust gas flow	2319kg/h
------------------	----------

Exhaust temperature	517°C
---------------------	-------

Max back pressure	10kpa
-------------------	-------

**Air Intake System**

Max intake restriction	6.2kPa
------------------------	--------

Combustion air flow	31.4m <sup>3</sup> /min
---------------------	-------------------------

Air flow required for radiator	680m <sup>3</sup> /min
--------------------------------	------------------------

Comprehensive Solutions For

**POWER GENERATION**



**MODEL: BF-C500Q**

**400V | 1500rpm | 50Hz**

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	204g/kWh	96.0 L/h
Fuel consumption @ 75% (Prime Power) Load	200g/kWh	70.9 L/h
Fuel consumption @ 50% (Prime Power) Load	202g/kWh	48.8 L/h

**Oil System**

Total oil capacity	38.6L
Oil consumption	≤4g/kWh
Oil sump capacity	28.4~36L

**Cooling System**

Coolant capacity	85L
Max water temperature	104°C



**MODEL: BF-C500Q**
**400V | 1500rpm | 50Hz**

## ALTERNATOR SPECIFICATION

Industrial alternators meet the requirements of the relevant parts of the BS5000, VDE 0530, NEMA MG1-22, IEC34, CSA 22.2-100 and AS1359.

### Alternator Data

Number of Phase	3
Connecting Type	3 Phase and 4 Wires, Y type connecting
Number of Bearing	1
Power Factor	0.8
Protection Class	IP23
Altitude	≤1000m
Exciter Type	Brushless exciting
Insulation Class/Temperature Rise	H/H
Telephone Influence Factor (TIF)	< 50
THF	< 2%
Alternator Capacity	450kVA
Alternator Efficiency	93.3%

**MODEL: BF-C500Q****400V | 1500rpm | 50Hz****GENERATING SET DATA**

Related range of voltage setting	$\geq \pm 5\%$
Steady-state voltage deviation	$\leq \pm 1\%$
Transient voltage deviation (100 % sudden power decrease)	$\leq +20\%$
Transient voltage deviation (sudden power increase)	$\leq -15\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 4S$
Voltage recovery time (sudden power increase)	$\leq 4S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 0.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +10\%$
Transient frequency deviation (sudden power increase)	$\leq -7\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 3S$
Frequency recovery time (sudden power increase)	$\leq 3S$

**STANDARD FEATURES**

Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	Special tools

MCCB

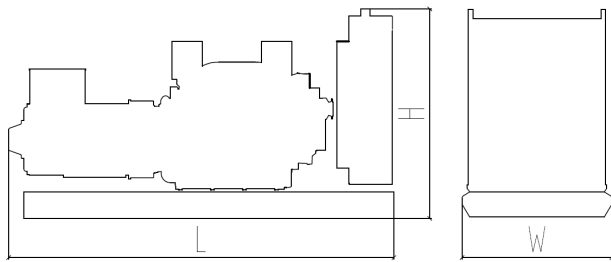
**MODEL: BF-C500Q**

**400V | 1500rpm | 50Hz**

**OPTIONS**

Daily fuel tank	Rainproof type	Remote control panel
Alternator heater	Soundproof type	Paralleling system
Spare parts	Trailer type	Switch box
Automatic transfer switch		

**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 3090×1400×1900 mm

Weight: 3300 kg

**Standard Configuration (with base fuel tank)**

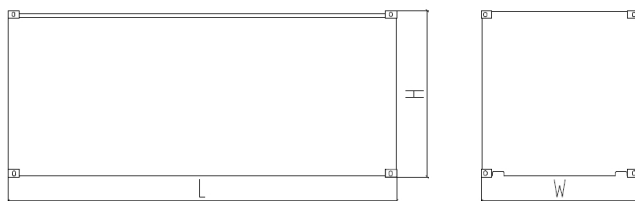
Overall Dimensions: 3090×1400×1900 mm

Weight: 3450 kg

**Soundproof Type**

Overall Dimensions: 4630×1660×2250 mm

Weight: 4700 kg



*Specifications are subject to change without notice.*

**BAIFA POWER (WUXI) LTD.**  
**WEBSITE: WWW.BAIFAPOWER.COM**  
**EMAIL: MARKETING@BAIFAPOWER.COM**  
**TEL: +86-510-85342633**

Comprehensive Solutions For  
**POWER GENERATION**

